

In re Patent Application of:

WU

Serial No. 10/597,118

Filed: 17/12/2006

IN THE SPECIFICATION

[0019] As shown in Fig. 1, Fig. 2 and Fig. 3, the toothbrush of the present invention comprises a toothbrush head 1, a toothbrush bar 2 and a toothpaste container 3. Wherein, the toothbrush container 3 ~~is a pressurized container~~, which is connected with the toothbrush bar 2, is a gas-filled and pressurized container, with a gas nipple 33 at the bottom of the container, and wherein a toothpaste bag 32, which is a compressible soft bag, is located inside the container. The toothbrush bar 2 has a pipe channel 21, and the toothbrush container 3 is communicated with the toothbrush head 1 through the pipe channel 21 via a valve. As shown in Fig. 1, the toothbrush bar 2 is hinged with the toothbrush container 3 by a spherical hinged joint 4 formed by the end of the toothbrush bar 2, and the spherical hinged joint 4 controls the opening or closing of the valve.

[0022] As shown in Fig. 1 and Fig. 4 [[3]], a vane valve 11 is set inside the toothbrush head 1 for controlling the opening or closing of the pipe channel 21. The vane valve 11 has valve holes thereon, and inside the toothbrush head 1 are set corresponding through-holes extending to the bristle. The opening or closing of the vane valve 11 is controlled by the overlapping or misaligning between the valve hole 111 and trough-hole 12. The vane valve 11 is further provided with a protruding edge 112. When in use, the valve hole 111 is driven to move by the press to the protruding edge 112 from the toothpaste until the valve hole 111 is overlapped with the through-hole 12, such that the toothpaste is squeezed onto the bristle of the toothbrush head 1. A leaf spring 113 for reset is provided adjacent to the protruding edge 112.